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TI - TELEPHONE NUMBER MANAGEMENT SYSTEM FOR PORTABLE TELEPHONE SET USING INTERNET
AB - PROBLEM TO BE SOLVED: To provide a telephone number management system of portable telephone sets, which uses the Internet having a function that can transmit the necessary telephone numbers from the portable telephone set by means of Web pages.
- SOLUTION: A telephone number management device transmits a Web page listing telephone numbers to a portable telephone set that has a call limiting function and a function to read the Web pages. The Web server of the telephone number management device is provided with a user authentication step to transmit a Web page to the telephone set for confirming the previously authenticated users, a retrieval condition selection step to transmits a Web page to the telephone set for selecting the retrieval conditions of telephone numbers, a retrieval item input step to transmit a Web page to the telephone set for inputting the retrieval items of telephone numbers and a telephone number transmission step to transmit a Web page listing the URL(uniform resource locators) to the telephone set for calling the relevant telephone numbers obtained by retrieving a telephone directory data base.
I - H04M1/667 ; H04M1/00 ; H04M1/26 ; H04M3/42 ; H04M3/493 ; H04M11/00
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* NOTICES *

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1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] To the portable telephone which has an originating restriction function and has the function which can peruse a Web page in the telephone number management equipment using the computer system equipped with the Web server which performs transmission of the Web page by which the telephone number was carried through the Internet at least. The telephone directory database which contains at least the name which can pinpoint the telephone number which can send from a portable telephone and the owner of this telephone number, or an address, It has a user authentication means to attest the user of said portable telephone who refers to said telephone directory database, through said Web server. The Web server of said telephone number management equipment. The user authentication phase of transmitting the Web page which checks he being the user who answered the input of said portable telephone and was attested beforehand to said portable telephone, The input of said portable telephone attested in said user authentication phase is answered. The retrieval condition selection stage story which transmits the Web page which chooses the conditions which search the telephone number to said portable telephone, The retrieval item input phase of transmitting the Web page which inputs the item which answers the input of said portable telephone and searches the telephone number to said portable telephone, Answered the input of said portable telephone, searched the telephone directory database, and were obtained as a result of retrieval. The telephone number managerial system of the portable telephone using the Internet characterized by having the telephone number transmitting phase of transmitting the Web page which carried URL (uniform resource locator) which can be sent to the corresponding telephone number to said portable telephone.

[Claim 2] Said telephone number management equipment is the telephone number managerial system of the portable telephone using the Internet according to claim 1 characterized by having an access control means to restrict the Web server which the user of said portable telephone can refer to.

[Claim 3] The Web server of said telephone number management equipment is equipped with a manager authentication means to attest the manager of a manager terminal who wishes edit of the telephone number carried by said Web page, and answers the input of said manager terminal. The manager authentication phase of transmitting the Web page which checks he being the manager attested beforehand to said manager terminal, The input of said manager terminal attested in said manager authentication phase is answered using said manager authentication means. The list retrieval phase of transmitting the Web page which searches the telephone number or a name to said manager terminal, The new registration phase of transmitting the Web page for registering into said telephone directory database the telephone number to which the input of said manager terminal is answered and said portable telephone enables dispatch of a telephone using a Web page to said manager terminal, The modification phase of transmitting the Web page which changes the information which answers the input of said manager terminal and is registered into said telephone directory database to said manager terminal, The retrieval condition input phase of transmitting the Web page which retrieves the information which answers the input of said manager terminal and is registered into said telephone directory database to said manager terminal, Answer the input of said manager terminal and said telephone directory database is

searched. The telephone number managerial system of the portable telephone using the Internet given in either of claims 1 or 2 characterized by having the retrieval result display phase of transmitting the Web page which displays the information acquired from said telephone directory database to said manager terminal.

[Claim 4] The telephone number managerial system of the portable telephone using the Internet according to claim 1 to 3 characterized by having an access record means to record either URL which carried to URL of said portable telephone or either of the telephone numbers, and a Web page when transmitting the Web page which carried URL (uniform resource locator) which can be sent to the corresponding telephone number in said telephone number transmitting phase to said portable telephone, or the telephone number.

[Translation done.]

[0009] Drawing 1 is the schematic diagram showing the configuration of the telephone number managerial system of the portable telephone using the Internet in the gestalt of this operation.

[0010] Telephone number management equipment 1 transmits the telephone directory database 121 for the CC section 112 and the portable telephone which control the administrative terminal machine 111 of telephone number management equipment 1 and telephone number management equipment 1 to refer to, and a Web page, and consists of Web server 131 which carries out the response, and a communication line connection (fire wall) 101 with the Internet communication line 5, and these are connected by the system bus 102.

[0011] Furthermore, telephone number management equipment 1 is equipped with an access record means 144 to record URL or the telephone number which a user authentication means 141 to attest the user of a portable telephone 3 who refers to a telephone directory database, a manager authentication means 142 to attest the manager who updates a telephone directory database, an access control means 143 to restrict the Web page which can be used from a portable telephone, and the portable telephone searched.

[0012] Moreover, the communication line connection (fire wall) 101 is bearing the role which makes safely connection with the portable telephone 3 which connects Web server 131 and the external Internet communication line 5, and is connected through a base station (communication link entrepreneur) 4 and a radiocommunication network for dispatch of a telephone, and the manager terminal 2 which performs maintenance of a telephone directory.

0013] Drawing 2 is the schematic diagram showing the flow of actuation of a portable telephone of the telephone number managerial system of the portable telephone using the Internet in the gestalt of operation of this invention.

[0014] What has an originating restriction function and the function which can peruse a Web page is used for the portable telephone 3 connected to telephone number management equipment 1 through a radiocommunication network, a base station (communication link entrepreneur) 4, and the Internet communication line 5.

[0015] In the user authentication phase S301, it connects with telephone number management equipment 1, and the portable telephone 3 which could be made not to perform modification of the content of setting out concerning the dispatch to originating restrictions other than telephone number management equipment 1 and the telephone number, a Web page, a mail server, etc. logs in to Web server 131 of this telephone number management equipment 1.

[0016] Web server 131 of telephone number management equipment 1 transmits the Web page which can perform selection of retrieval conditions to a portable telephone 3 in the retrieval condition selection stage story S302, when it is judged by the log in from a portable telephone 3 using the user authentication means 141 that it is available.

[0017] Web server 131 of telephone number management equipment 1 answers the input of the retrieval condition selection from a portable telephone 3, and transmits the Web page which inputs the retrieval item chosen on the retrieval condition selection stage story S302 to a portable telephone 3 in the retrieval item input phase S303.

[0018] Web server 131 of telephone number management equipment 1 answers the input of the retrieval item from a portable telephone 3, and transmits the Web page which displays the list of retrieval results to a portable telephone 3 in the telephone number transmitting phase S304.

[0019] It is displayed on a portable telephone 3 and sent to the corresponding telephone number by having URL (uniform resource locator) which can be sent to the telephone number obtained as a result of retrieval, and specifying this URL using the key of a portable telephone 3, or the input section of a pointing device (not shown).

0045] Drawing 7 is the schematic diagram showing the content of the telephone directory database of the telephone number management equipment of the portable telephone using the Internet in the gestalt of operation of this invention.

[0046] As shown in explanation of drawing 2 -6, in case Web server 131 of telephone number management equipment 1 answers the input of the portable telephone 2 which sends a telephone and transmits a Web page, the telephone directory database 121 of telephone number management equipment 1 is referred to if needed, and can be edited with the manager terminal 2.

[0047] The telephone directory 1 of the telephone directory database 121 - n (121a-121c) consist of mail addresses of the identifier of the owner of a telephone, a furigana, the telephone number, and an electronic mail etc.

[0048]

[Effect of the Invention] According to invention according to claim 1, the cellular phone which has an originating restriction function and a Web page access function is used. By transmitting the Web page which can perform dispatch to the telephone number from this Web server to the cellular phone which carried out originating restrictions other than the Web server which registered the telephone directory It can make it possible to use only the telephone which the manager registered, a private telephone and unjust access can be prevented in an enterprise etc., and parents can manage the phase hand of a telephone by whom a child is hung. Moreover, the utilization as a telephone directory server is attained and it can utilize also as the utilization as an in-house (inside of ****) telephone directory, and an individual address book.

[0049] According to invention according to claim 2, reference of those other than the Web page which the manager permitted can be carried out by applying a limit by not being made to access of the Web server which the user of a cellular phone can refer to, and the user of a cellular phone can do by the ability not referring to other Web pages freely.

[0050] According to invention according to claim 3, since it is connectable with the Web server of telephone number management equipment through the Internet, a manager can edit the telephone directory database of telephone number management equipment even from where with PC (personal computer) etc. if needed. Moreover, the content of updating can be reflected in all the men that use it in common, and the convenience that setting out of an individual cellular phone becomes unnecessary is also born by updating the telephone directory database as a telephone directory server.

[0051] According to invention according to claim 4, it becomes possible to investigate a user's access situation by recording accessed URL of a portable telephone or the telephone number, and URL or the telephone number obtained as a result of searching.

[0052] furthermore, since it is made to hang only on the regular telephone number, even a carbon button can come out, a regular telephone can be accessed, and it also becomes possible as application for care etc. to build an urgent communication system by making it a care pin center, large and a hospital etc. contacted.